Cabell County, West Virginia
Table H.--Engineering Index Properties

(Absence of an entry indicates that the data were not estimated.)

Map symbol	 Depth	 USDA texture	Classif	ication	Fragi	ments		rcentage sieve n	e passin umber		 Liquid	 Plas-
and soil name	- 	 	 Unified	 AASHTO	>10 inches	3-10 inches	 4	10	40		limit	
	In		<u> </u>	<u> </u>	Pct	Pct	<u> </u>	İ	<u> </u>	' 	Pct	! !
AgC:	 	 	 			 	 	 	 	 	1	
Allegheny	8-30 I	Clay loam, loam, sandy	ML, CL CL, ML, SC, SM	A-4 A-4, A-6	 	0 0					15-35 15-35	
	30-50 	•		A-1, A-2, A- 4, A-6 	 	 0-5 	 65-100 	 55-100 	 35-95 	 20-75 	 15-35 	 NP-15
AhC:	 			İ		i	İ	i	İ		İ	
Allegheny	8-30	Clay loam, loam, sandy	ML, CL SC, SM, ML, CL	A-4 A-4, A-6							15-35 15-35	
	30-50 		GC	A-2, A-4, A- 6, A-1 	 	 0-5 	 65-100 	 55-100 	 35-95 	 20-75 	 15-35 	 NP-15
Urban Land	 0-6	 	 	 					 	 		
Other Soils	 						 	 	 	 		
AsA:	 	 	 			 	 	 	 	 	1	
Ashton	10-50			A-4 A-4, A-6, A-7							15-35 25-42	
	50-65 	Silt loam,	 SM, ML, CL- ML, CL	A-4, A-6 	 	 0-5 	 90-100 	 85-100 	 65-95 	 40-90 	15-40 	 NP-20
Melvin	 		 							 		
AsB: Ashton	10-50	•	•	 A-4 A-4, A-6, A-7	 						 15-35 25-42 	
	50-65 		 CL, SM, ML, CL-ML	 A-4, A-6 	 	0-5	 90-100 	 85-100 	 65-95 	 40-90 	 15-40 	 NP-20

Print date: 05/17/2002

Table H.--Engineering Index Properties--Continued

		1	Ι	Classif	icati	on		Fragi	ments			e passin		1	
Map symbol	Depth	USDA texture	!							 :	sieve n	umber		Liquid	
and soil name								>10		ļ				limit	
		 	Ţ	Unified	A	ASHTO		inches	inches	4	10	40	200		index
	In		İ		' 			Pct	Pct			' ———	' 	Pct	¦
Melvin		 	 		 					 	 	 	 		
Ca:		l I	l I		l I				 	 	 	 	l I	1	
Chagrin	0-8	Silt loam	ML,	CL-ML, CL	A-4				i 0	95-100	85-100	80-100	70-90	120-35	2-10
	8-41	Silt loam,	ISM,	ML	A-2,	A-4,	A-6		I 0	90-100	75-100	155-90	30-80	20-40	NP-14
		loam, sandy	į		į	·			į	I	İ	İ	ļ	į	į
		loam Stratified silt	 N/T	CM	17 0	A-4			1 0	 0 5 1 0 0	 7	 EO OE	115 00	120-40	 NTD 10
		loam to fine sand	 	SM	A-2, 	A-4			U		/3-100 -	30 - 63 	 	20-40	 -
Melvin		 	 		 			 	 	 	 	 	 		
Cq:		İ	İ		' 			! 	<u> </u>	! 	! 	! 	İ	<u>'</u>	'
Chagrin	0-8	Silt loam	ML,	CL, CL-ML	A-4				I 0	95 - 100	85 - 100	80-100	70-90	20-35	2-10
j	8-41	Silt loam,	SM,	ML	A-2,	A-4,	A-6		0	90-100	75-100	55-90	30-80	20-40	NP-14
		loam, sandy loam	 		 			 	 	 	 	 	 		
		Stratified silt loam to fine sand		ML	A-2,	A-4		 	0 	85-100 	75-100 	50-85 	15-80 	20-40	NP-10
Melvin		 	 		 			 	 	 	 	 	 		
Cm:		i	i		İ				į	I	İ	İ	İ	i	i
Chagrin	0-8			CL-ML, CL										20-35	
		loam, sandy	SM, 	ML	A-2,	A-4,	A-6		0 	90-100 	75-100 	55-90 	30-80 	20-40	NP-14
	41-65	loam Stratified silt loam to fine sand	 ML, 	SM	 A-2, 	A-4		 	 0 	 85-100 	 75-100 	 50-85 	 15-80 	120-40	 NP-10
		İ	İ		İ				İ	İ	I	İ	İ	i	į
Other Soils			 		 						 				
Melvin	0-9	Silt loam	ML,	CL-ML, CL	 A-4				0	195-100	 90-100	80-100	 80-95	110-65	4-14
			CL,	CL-ML	A-4,	A-6			0	95-100	90-100	80-100	80-98 	25-40	5-20
	27-65		 CL, 	CL-ML	 A-4, 	A-6		 	 0 	 85-100 	 80-100 	 70-100 	 60-98 	25-40 	5-20

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	 USDA texture	Classif	ication	İ	ments		rcentage sieve n			 Liquid	
and soil name	 	 	 Unified	 AASHTO	>10 inches	3-10 inches	 4	10	40	200	limit 	ticity index
	 In			 	Pct	Pct	'	¦	¦	'	Pct	¦
CoB: Coolville	 		 		 	 0						 4-14
C001v111e		Silt loam Silty clay loam	ML, CL-ML, CL	A-4, A-6 A-6, A-7			•	90-100 85-100			135-70	
	25 - 55 	Clay, silty clay, silty		A-7							45-65	
	55-60	clay loam Weathered bedrock	 	 	 	 	 	 	 	 		
CtB:	İ	i	İ	İ	i	I	İ	i	i i	İ	i	İ
Cotaco		İ	ML, CL-ML	A-4		İ	I	İ	İ	İ	15-30 	İ
		Gravelly sandy clay loam, clay loam, loam		A-1-b, A-2, A-4, A-6 	 	0-10 	 	50-95 	40-90 	20-80 	15-35 	NP-15
		Gravelly silt loam, clay loam, loam		A-1-b, A-2, A-4, A-6	 	0-10 	60-100 	50-95 	40-90 	20-80 	15-35 	NP-15
DoD:	İ	İ	İ	İ	į	İ	İ	İ	İ	İ	İ	İ
Dormont	6-51 	Silt loam Channery silt loam, channery clay loam, silty clay loam	CL, ML, SC	A-4, A-6 A-4, A-6 	 		•	70-100 70-95 			25-65 25-50 	9-15 9-15
	51-65 	Year Very channery loam, channery clay loam, channery silty clay loam	CL	 A-4, A-6, A-7 	 	 10-40 	 65-100 	 60-95 	 55-95 	40-85 	25-70 	9-25
GlC:		İ	İ	! 	İ			İ	İ	İ	İ	İ
Gilpin 	9-14 	Channery loam, shaly silt loam, silty		A-4, A-6 A-2, A-4, A-6 		0-5 0-30 					20-40 20-40 	4-15 4-15
	14-38 	clay loam Channery loam, very channery silt loam, very shaly silty clay loam		 A-1, A-2, A- 4, A-6 	 	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15
		Unweathered bedrock	 	 	 			 				

Table H.--Engineering Index Properties--Continued

Map symbol	l Depth	USDA texture	Classif	ication	Fragr	ments			e passi umber		 Liquid	 Plas-
and soil name			Unified	AASHTO	>10 inches		4	10	40		llimit	
	In		 	. 	Pct	Pct	 				Pct	! !
GlD:		 	 	 	 	 	 			 		
Gilpin	9-14 	Channery loam,		A-4, A-6 A-2, A-4, A-6 	 						20-40 20-40 	
	14-38 	Channery loam, very channery silt loam, very shaly silty clay loam		A-1, A-2, A- 4, A-6 	 	0-35	25-55 	20-50 	15-45 	15-40 	20-40	4-15
		Unweathered bedrock	 	 	 	 	 			 		
GlE: Gilpin	9-14 	Channery loam, shaly silt loam, silty		 A-4, A-6 A-2, A-4, A-6	 		 80-95 50-95 				 20-40 20-40 	 4-15 4-15
	14-38 	clay loam Channery loam, very channery silt loam, very shaly silty clay loam		 A-1, A-2, A- 4, A-6 	 	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15
	38-42	Todm Unweathered bedrock 	 	 	 	 	 			 		
GpF: Gilpin		 Very stony silt loam	 CL, CL-ML, GC, SC	 A-2, A-4, A-6	 	 10-40 	 50-90 	 45-85 	 35-75 	 30-70 	 20-40 	 4-15
		loam, channery loam, silty		A-6, A-2, A-4	 	0-30	50-95 	45-90	35-85	30-80	20-40	4-15
	14-38 	clay loam Channery loam, very channery silt loam, very shaly silty clay loam		A-1, A-2, A- 4, A-6 	 	0-35	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	4-15
	38-42	Iodm Unweathered bedrock 	 	 	 	 	 			 		

Table H.--Engineering Index Properties--Continued

Map symbol	 Depth	 USDA texture	Classif	ication	i	ments		_	e passin umber	-	 Liquid	
and soil name		 	 Unified	AASHTO	>10 inches	3-10 inches	 4	10	40	200	limit 	ticity index
	 In	ļ	 	. 	 Pct	 Pct	! !	 	!	 	Pct	
GuC:		1	 		 	 	 	 	 	 	 	
Gilpin	9-14 	Channery loam,		A-4, A-6 A-2, A-4, A-6							20-40 20-40 	
	14-38 	Channery loam, Channery loam, very channery silt loam, very shaly silty clay loam		A-1, A-2, A- 4, A-6 	 	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	20-40 	4-15
		Unweathered bedrock			 	 	 	 	 	 	 	
Upshur	5-29	Silty clay loam Silty clay, clay		A-6, A-7 A-7	 	 0 0					35-70 45-85	•
	29-43	Silty clay loam, silty	ML, MH, CL,	A-6, A-7	 	0	80-100	 65-100 	60-100	 55 - 95 	35-55 	11-25
		clay, clay Weathered bedrock	 	 	 	 	 	 	 	 	 	
Other Soils												
GuC3:		 	 		 	 	 	 	 	 	 	
Gilpin 	9-14 	Channery loam,		A-4, A-6 A-2, A-4, A-6 	 		80-95 50-95 		70-85 35-85 			4-15 4-15
		Channery loam, very channery silt loam, very shaly silty clay loam		A-1, A-2, A- 4, A-6 	 	0-35 	25-55 	20-50 	15-45 	15-40 	20-40 	4-15
	38-42 	Unweathered bedrock 	 	 	 	 	 	 	 	 	 	

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	 USDA texture	Classif	ication	Fragr	ments			e passir umber		 Liquid	 Plas-
and soil name	-	İ			>10	3-10	İ				limit	ticity
ĺ			Unified	AASHTO	inches	inches	4	10	40	200		index
	In	İ	i	i	Pct	Pct	İ	i	i		Pct	
 Upshur 	5-29		, , ,	 A-7 A-7	 				 90-100 90-100			
	29-43	Silty clay	 MH, CL, CH, ML	A-6, A-7	 	, 0 	 80-100 	 65-100 	 60-100 	 55-95 	 35-55 	 11-25
	43-47	clay, clay Weathered bedrock	 	 	 	 	 	 	 	 	 	
Other Soils		 	 		 	 	 	 	 	 	 	
GuD:							İ	' 		! 	' 	!
Gilpin 	9-14	Channery loam, shaly silt		A-4, A-6 A-2, A-4, A-6	 				70-85 35-85			
	14-38	loam, silty clay loam Channery loam, very channery silt loam, very shaly silty clay		 A-1, A-2, A- 4, A-6	 	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15
	38-42	loam Unweathered bedrock	 		 	 	 	 	 	 	 	
 	5-29			A-6, A-7 A-7					90-100 90-100			
	29-43	Silty clay loam, silty	 CH, CL, MH, ML	A-6, A-7	 	 0 	 80-100 	 65-100 	 60-100 	 55-95 	 35-55 	 11-25
	43-47	clay, clay Weathered bedrock	 	 	 	 	 	 	 	 	 	
Other Soils	 	 	 	 	 	 	 	 	 	 	 	

Table H.--Engineering Index Properties--Continued

Mary symbol	Da-=+1-	HCDA +	Classif	ication	Fragi	ments		_	e passin			
Map symbol and soil name	Depth	USDA texture	 		>10	1 3_10	: 	sieve n	umber		Liquid limit	
and soll name			 Unified	AASHTO		3-10 inches	4	1 10	40	200		index
	In		! !	!	Pct	Pct	 	 			Pct	
GuD3:		 	 	 	 	 	 	 	 	 	 	
Gilpin	9-14	Channery loam,		A-4, A-6 A-2, A-4, A-6					70-85 35-85 			
	14-38	Channery loam, Channery loam, very channery silt loam, very shaly silty clay loam		A-1, A-2, A- 4, A-6 	 	0-35 	 25-55 	 20-50 	15-45 	 15-40 	20-40 	4-15
	38-42	loam Unweathered bedrock	 	 	 	 	 	 	 	 	 	
Upshur	5-29			 A-7 A-7	 				90-100 90-100			
 	29-43	Silty clay loam, silty	 MH, ML, CH, CL	 A-6, A-7 	 	 0 	 80-100 	 65-100 	60-100 	 55 - 95 	 35 - 55 	 11 - 25
	43-47	clay, clay Weathered bedrock	 	 	 	 	 	 	 	 	 	
Other Soils		 	 	 	 	 	 	 	 	 	 	
GuE:		İ	İ	İ	i	İ	İ	i I	i	i I	İ	İ
Gilpin 	9-14	Channery loam,	CL-ML, CL SC, CL, GC, CL-ML 					•	70-85 35-85 	•		
	14-38	Channery loam, very channery silt loam, very shaly silty clay		A-1, A-2, A- 4, A-6 	 	0-35 	 25-55 	 20-50 	 15-45 	 15-40 	20-40 	 4-15
	38-42	loam Unweathered bedrock	 	 		 	 	 		 	 	
Other Soils	 	 	 	 	 	 	 	 	 	 	 	

Table H.--Engineering Index Properties--Continued

Map symbol	Donth	 USDA texture	Classif	ication	Fragi	ments			e passinumber		 Liquid	 Dlag-
and soil name	рерсп	USDA CEXCUIE	\		>10	3-10	 	steve III	numer			ticity
		İ	Unified	AASHTO		inches	4	10	40	200		index
	—In	! !	<u> </u>	·	Pct	Pct			! !	! !	Pct	!
 Upshur 	5-29			 A-6, A-7 A-7	 		 95-100 95-100					
 	29-43	loam, silty	 MH, CL, CH, ML	A-6, A-7	 	 0 	 80-100 	 65-100 	 60-100 	 55-95 	 35-55 	 11 - 25
 	43-47	clay, clay Weathered bedrock	 		 	 	 	 	 	 	 	
GuE3:		 	1	I I		 	 	 	 	 	 	
Gilpin	0-9	Silt loam	CL-ML, CL	A-4, A-6		0-5	80-95	75-90	70-85	65-80	20-40	4-15
 		loam, silty	GC, CL-ML, CL, SC 	A-2, A-4, A-6	 	0-30 	50-95 	45-90 	35-85 	30-80 	20-40 	4-15
	14-38	clay loam Channery loam, very channery silt loam, very shaly silty clay loam	 GC-GM, GC 	A-1, A-2, A- 4, A-6 	 	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15
		Todam Unweathered bedrock	 			 	 	 	 	 	 	
Other Soils												
Upshur 	5-29		ML, MH, CL MH, CL, CH	A-7 A-7	 		95-100 95-100 					
 	29-43	Silty clay	CH, CL, MH, ML	A-6, A-7	 	0 	80-100 	65-100 	60-100 	55-95 	35-55 	11-25
	43-47	Weathered bedrock		 	 	 	 	 	 	 	 	

Table H.--Engineering Index Properties--Continued

Map symbol	Den+h	 USDA texture	Classif	ication		Fragn	nents			e passir umber		 Liquid	 Plac
and soil name	nebru	USDA LEXEUTE				>10						limit	ticity
 		 	Unified 	AASHTO		inches 	inches 	4 	10 	40 	200 	 	index
i	In	Ī	i			Pct	Pct	i		i		Pct	i
GuF:		 	 				 	 	 	 	 	 	
Gilpin				A-4, A-6						70-85			
			CL-ML, GC, SC, CL	A-2, A-4,	A-6		0-30	50-95 	45-90 	35-85 	30-80 	20-40	4-15
		loam, silty clay loam	 	1			 	 	 	 	 	 	
İ	14-38	Channery loam, very channery silt loam,		A-1, A-2, 4, A-6	A-		0-35	 25 - 55 	20-50	15-45 	15-40	20-40	4-15
 		very shaly silty clay	 	 			 	 	 	 	 	 	
		loam Unweathered											
 		bedrock	 				 	 	 	 	 	 	
Other Soils													
ا 	0-5	 Silty clay loam	 CL, ML	 A-6, A-7			0	 95-100	 95-100	90-100	 80-95	 35-70	 11-25
			MH, CL, CH	A-7			0	95-100	95-100	90-100	85-100	45-80	20-40
 	29-43		 MH, ML, CL, CH	A-6, A-7			 0 	 80-100 	 65-100 	 60-100 	 55-95 	 35-55 	 11-25
i		clay, clay	İ	İ		i i	i	i İ	İ	İ	İ	İ	i
		Weathered bedrock	 	 		 	 	 	 		 		
GxD:			 										İ
Urban Land	0-6												
Gilpin	0-9	 Silt loam	 CL-ML, CL	A-4, A-6			0-5	 80-95	 75-90	 70-85	 65-80	120-40	4-15
		Channery loam, shaly silt loam, silty	SC, CL-ML, CL, GC	A-2, A-4,	A-6	 	0-30 	50 - 95 	45-90 	35-85 	30-80 	20-40	4-15
		clay loam	' 	İ									İ
 		Channery loam,		A-1, A-2, 4, A-6	A-		0-35 	25 - 55 	20 - 50	15-45 	15-40 	20-40	4-15
 		silt loam, very shaly silty clay	 	 			 	 	 	 	 	 	
İ		loam	' 			i		İ	İ	İ	İ	İ	i
		Unweathered bedrock	 	 					 		 		
Other Soils			 				 						

Table H.--Engineering Index Properties--Continued

Map symbol	Denth	 USDA texture	Classif	icatio	n	Fragr	ments		rcentage	e passin	_	 Liquid	 Plas-
and soil name	Береп		' Unified	 AA:			3-10		1 10	40		limit	
		<u> </u>	l	l		 Pct	 Pct.	ļ	l	ļ	 	 Pct	
			 			100		 	! 				
Upshur	5-29	Silty clay loam Silty clay, clay		A-6, 1 A-7	A-7	 				90-100 90-100			11-25
	29-43	Silty clay loam, silty	CH, CL, MH,	A-6, 2	A-7	 	 0 	 80-100 	 65-100 	 60-100 	 55 - 95 	35-55 	11-25
	43-47	clay, clay Weathered bedrock 	 	 		 	 	 	 	 	 	 	
Gy:						İ	İ	 	 	, 			10
Guyan 	9-65			A-4 A-4, 1	A-6	 			•	95-100 80-100 			5-10 8-17
Purdy		 	 	 		 	 	 	 	 	 		
Gz: Guyan	0 0	 Silt loam	 CL-ML, ML	 A-4		' 	 0	 05 100	 05 100	 95-100	 65 00	120 60	 5-10
Guyan 	9-65			A-4 A-4, 	A-6	 				80-100 80-100 			8-17 8-17
Urban Land	0-6	 	 	 		 	 	 	 	 	 		
Other Soils			 			' 	 				 		
Hu:										!			<u> </u>
Huntington	14-65		CL, CL-ML, ML CL, CL-ML, ML 			 				85-100 85-100 			5-15 5-15
Melvin			 	! 		 	 	 	 		 		
KaA: Kanawha	11-65	Loam, sandy clay loam,	 ML, CL-ML, CL CL, ML, SC, SM		A-4, A-6	 		•	•	 65-100 60-100		 20-35 20-40	 2-10 3-15
KaB: Kanawha	11-65	Loam, sandy	 ML, CL-ML, CL CL, ML, SC, SM		A-4, A-6	 				 65-100 60-100 			 2-10 3-15

Table H.--Engineering Index Properties--Continued

Map symbol	 Depth	 USDA texture	Classif:	ication	i	ments		rcentage sieve n	e passinumber	ng	 Liquid	 Plas-
and soil name			1			3-10	l				limit	
			Unified	AASHTO	inches	linches	4	10	40	200	1	index
	In	<u>'</u>		\	Pct	Pct	¦	'	İ	'	Pct	İ
KnA:			1	 -					 	 	1	
Kanawha	ı I 0-11	lToam	CL-ML, CL, ML	I A – 4		1 0	180-100	175-100	 65-100	1 150-90	120-35	2-10
	11-65	Loam, sandy	SM, SC, ML,	•	 						20-40	3-15
KnB:										! 		
Kanawha		•	ML, CL-ML, CL	•					65-100		•	2-10
		· -	SM, SC, ML, CL 	A-2, A-4, A-6 	 	0 	80-100 	75-100 	60-100 	25-80 	20-40	3-15
KuB:					' 	, 	' 	' 		' 		
Kanawha			ML, CL-ML, CL						65-100		20-35	2-10
		· -	CL, ML, SC, SM	A-2, A-4, A-6 	 	0 	80-100 	75-100 	60-100 	25-80 	20-40	3-15
Urban Land	0-6		 	 						 		
Other Soils				 						 		
LaC:		1	 	 						 		
Lakin				A-2					95-100			NP-7
		Loamy sand, fine sand, loamy fine sand	SC-SM, SM 	A-2, A-3 	 	0 	95-100 	95-100 	90-100 	5-35 	15-30 	NP-7
 	50-65	•		A-1, A-2, A-3 	 	0 	40-100 	35-100 	20-80 	5-25 	15-30	NP-7
LlD:			İ		İ	İ	İ	İ			i	İ
Lily		•		A-2, A-4							15-20	
			SM, SC, ML, CL	A-4, A-6 		0-5 	90-100 	85-100 	75-100 	40-80 	15-35 	3-15
	30-38	Sandy clay		A-1-b, A-2, A-4, A-6	 	0-10	65-100 	 50-100 	40-95 	 20-75 	15-35 	 3-15
	38-42	Unweathered bedrock	 	 	 	 	 	 	 	 		

Table H.--Engineering Index Properties--Continued

Map symbol	Denth	 USDA texture	Classif	ication	Fragr	ments		rcentage sieve n	e passin		 Liquid	 Plas-
and soil name	Deben			 	>10		i 	1 10	1 40		llimit	ticity
		1	Unified 	AASHTO 	inches	inches	4 	1 10	40 	200 		index
	In				Pct	Pct					Pct	
LlE:		1	 	 		 	 	 	 	 		
Lily		Sandy loam	SM	A-2, A-4							15-20	
 			SM, SC, ML, CL 	A-4, A-6 	 	0-5 	 	85-100 	75-100 	40-80 	15-35 	3-15
	30-38	Sandy clay		A-1-b, A-2, A-4, A-6	 	0-10 	65-100 	50-100 	40-95 	20-75 	15-35 	3-15
 	38-42	loam Unweathered bedrock 	 	 	 	 	 	 	 	 	 	
Lm: Lindside	0-11	 Silt loam	 CL, CL-ML, ML	 A-4. A-6		l I 0	 100	 95-100	 80-100	 55-90	 20-35	 2-15
	11-35	Silty clay loam, silt loam, very	ML, CL-ML, CL		 	0	•		90-100		110-60	4-18
	35-65	•	 CL, ML, SC, SM 	 A-2, A-4, A-6 	 	 0 	 60-100 	 55-100 	 45-100 	 30-95 	 20-60 	 4-18
Melvin		 	 	 	 	 	 		 	 		
Lo: Lobdell	0-5	 Silt loam	 CL, CL-ML, ML	 \(\D = 4 \)		l I 0	 95=100	 90=100	 80=100	 65-90	120-30	 NP=8
1000011		Loam, silt loam		A-4		•	•				120-35	
		Stratified sandy loam to silt loam	ML, SM, CL, CL-ML 	<u>A</u> – 4 		0 	90-100 	80-100 	65-85 	40-80 	15-35	NP-10
Melvin		 	 	 		 	 	 	 	 		
MaB: Markland 	6-34	•		 A-4, A-6 A-7	 	 0 0	 100 100 				 25-35 45-60 	
	34-65	clay loam Stratified clay to silty clay loam		 A-7 	 	 0 	 100 	 100 	 90-100 	 75-95 	40-55 	 15-25

Table H.--Engineering Index Properties--Continued

Map symbol	Denth	USDA texture	Classif:	icatio	n	Fragr	nents			e passir umber		 Liquid	 Plas-
and soil name	рерсп		' Unified			>10 >10	3-10	İ				limit	ticity
		1	Unilled	A <i>F</i> 	ASHTO	Inches	Inches	4	1 10	40	200 		index
	In	İ				Pct	Pct	1		i		Pct	İ
MaC:		1	 	 			 	 	l I	 	l I		
Markland	0-6	Silt loam	CL-ML, CL	A-4,	A-6	i	0	100		90-100	70-90	25-35	5-15
				A-7			0	100	100	95-100	90-95	45-60	19-32
		clay, silty clay loam	 	 			 	 	 	 	 	1	
	34-65	Stratified clay		A-7			0	100	100	90-100	75 - 95	40-55	15-25
		to silty clay loam	CH										
		TOAM	 	 			 	 	 	 	 		
Me:		L	I				l .	1	l	1	l	1	1
Melvin		•	CL, CL-ML, ML CL, CL-ML	A-4 A-4,	7-6							12-35 25-40	
		silty clay			11 0		0		100				3 20
		loam			- C								
		Silt loam, silty clay	CL, CL-ML	A-4,	A-6) 0 I	185-100	 80-100	1/0-100	60-98 	25-40 	5-20
		loam, loam	İ	i İ		i		İ		İ		İ	İ
MoB:													
Monongahela	0-6	Loam	 SC-SM, ML,	 A-4			0-5	90-100	 85 - 100	 75 - 100	 45-90	120-35	1-10
-		•	SM, CL-ML										
		Silt loam, clay loam, gravelly		A-4,	A-6		0-15	90-100	80-100 	75-100	70-90 	20-60	5-15
		loam	' 					İ		İ	İ	i	İ
			SM, SC, ML,	A-4,	A-6		0-10	80-100	60-100	55-95	45-95	20-40	3-15
		sandy clay loam, gravelly		 			 	 	 	 	 	1	
		loam	İ	İ		i	İ	İ	İ	İ	İ	į	i
		Silt loam, clay loam, gravelly		A-4,	A-6		10-20	75-100	60-90	60-85	40-85	20-40	1-15
		sandy loam	SM	 			 	 	 	 	 		
		!	!	l ·			l	ļ.	l	I	l	!	!
MoC: Monongahela	0-6	 Toam	 SM, SC-SM,	 A – 4			l l 0-5	 90-100	 85-100	 75-100	 45-90	 20-35	 1-10
110110119411014		İ	ML, CL-ML	l									
		Silt loam, clay		A-4,	A-6		0-15	90-100	80-100	75-100	70-90	120-60	5-15
		loam, gravelly loam	 	 			 	 	 	 	 		
	23-56	Silt loam,	SM, SC, ML,	A-4,	A-6	·	0-10	80-100	60-100	55 - 95	45-95	20-40	3-15
		sandy clay loam, gravelly	CL										
		loam, gravelly	 	 			 	 	 	 	 		
		Silt loam, clay		A-4,	A-6		10-20	75-100	60-90	60-85	40-85	20-40	1-15
		loam, gravelly	SM 	 			 	[[
		Janay Toan					 		 		 		

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif:	icati	on	i	ments					 Liquid	
and soil name 			 Unified 	l I Ai I	ASHTO		3-10 inches	 4 	10	40	200 	limit 	ticity index
	In			!		Pct	Pct	i	i	i	İ	Pct	
MuC:		 	 	 		1	 	 	l I	 	l I		
Monongahela	0-6		SM, SC-SM,	A-4		i	0-5	90-100	85-100	75-100	45-90	20-35	1-10
ļ		Silt loam, clay loam, gravelly loam	CL, CL-ML, ML	A-4,	A-6		0-15	 90-100 	 80-100 	75-100 	70-90 	20-60	5-15
	23-56	Silt loam,	 CL, SC, SM, ML 	 A-4, 	A-6		0-10 	 80-100 	 60-100 	 55-95 	 45-95 	20-40	3-15
	56-65	Ioam Silt loam, clay loam, gravelly sandy loam		 A-4, 	A-6		 10-20 	 75-100 	 60-90 	 60-85 	 40-85 	20-40	1-15
Urban Land	0-6	 	 	 				 					
Other Soils				 									
Po:			 	 			 	 	 		 		
Pope	0-8	Fine sandy loam	CL-ML, ML, SM, SC-SM	A-2,	A-4		0 	85-100 	75-100 	51-85 	25-55 	15-20 	NP-5
j			SM, SC-SM, ML, CL-ML	A-2,	A-4		0	95-100	80-100 	51-95	25-75 	15-30	NP-7
	46-65	Sandy loam,	 SM, SC-SM, ML, GM	 A-1, 	A-2, A-4		 0-20 	 45-100 	 35-100 	 30-95 	 15-70 	15-30	 NP-7
Atkins			 	 			 	 	 	 	 		
SoA:		İ	İ	İ		i	İ	İ	į	İ	İ	i	i
Sensabaugh 	6-20	Loam Gravelly loam, gravelly clay loam, gravelly silty clay loam	GC, SC-SM	A-4 A-4, 	A-6	 						16-29 20-35 	
	20-30	Foam Gravelly loam, gravelly clay loam, gravelly silty clay loam	SC-SM, GC	A-4, 	A-6		5-25 	70-90 	 55-75 	45-65 	 35-55 	22-36 	 6-15
		Gravelly loam, gravelly clay loam, gravelly fine sandy loam	SC-SM, GC	A-2,	A-4, A-6	 	5-30 	55-90 	25-75 	25-65 	20-55 	20-36 	6-15

Table H.--Engineering Index Properties--Continued

Map symbol	 Depth	 USDA texture	Classif	ication	i	ments		Percentage passing sieve number				 Plas-
and soil name		 	 Unified	 AASHTO	>10 inches	3-10 inches	 4 10		40		limit 	ticity index
	' In	 	 	 	Pct	Pct	' 	' 	·	 	Pct	'
SrB: Sensabaugh) 0-6	 I.oam	' CL-ML, ML, CL	 A-4		 0-5	' 90-100	 75-95	 65-85	 55-75	116-29	 3-9
	6-20 	Gravelly loam, gravelly clay loam, gravelly silty clay loam	CL, CL-ML, GC, SC-SM		 						20-35 	
		Gravelly loam, gravelly clay loam, gravelly silty clay loam	SC, SC-SM	A-4, A-6 	 	5-25 	70-90 	55-75 	45-65 	35-55 	22-36 	6-15
		Gravelly loam, gravelly clay loam, gravelly fine sandy loam	SC, SC-SM	A-2, A-4, A-6 	 	5-30 	55-90 	25-75 	25-65	20-55 	20-36	6-15
SvC: Urban Land	0-6	 	 	 		 	 					
Other Soils												
Sensabaugh 	6-20 	 Loam Gravelly loam, gravelly clay loam, gravelly silty clay loam	GC, SC-SM		 						16-29 20-35 	
	20-30	Gravelly loam, gravelly clay loam, gravelly silty clay loam	SM, GC-GM	A-4, A-6 	 	5-25 	70-90 	 55-75 	45-65 	35-55 	22-36 	 6-15
		Gravelly loam, gravelly clay loam, gravelly fine sandy loam	SC, SC-SM	A-2, A-4, A-6 	 	5-30 	55-90 	25-75 	25-65 	20-55 	20-36 	6-15

Table H.--Engineering Index Properties--Continued

Map symbol	 Depth	 USDA texture 	Classif	ication	i	ments		rcentage sieve n	e passir umber	_	 Liquid	
and soil name			 Unified	 AASHTO		3-10 inches	 4	10	40	200	limit 	ticity index
	 In				Pct	Pct	' 	' 	'		Pct	'
Vandalia	7-41 	Silty clay loam, channery silty clay, clay	ML, CL, CH 		 	0-5 	75-100 	70-95 	 70-95 65-90 	60-85 	35-70 	15-30
		Silty clay, clay, channery silty clay loam	ML, MH, CL, CH 	A-6, A-7 	 	0-5 	 	 65-100	60-100 	55-100 	30 – 70 	10-30
Ud: Udorthents			 	 				 			 	
UpC: Upshur	5-29			 A-6, A-7 A-7	 				 90-100 90-100			
	29-43	Silty clay loam, silty	 CL, CH, MH, ML	 A-6, A-7 	 	 0 	 80-100 	 65-100 	 60-100 	 55 - 95 	 35-55 	 11-25
	43-47	clay, clay Weathered bedrock	 	 	 	 	 	 	 	 	 	
Ur: Urban Land	 0-6	 	 	 	 	 	 	 	 	 	 	
Us: Urban Land	 0-6	 	 	 	 		 	 	 	 	 	
Ashton	10-50			A-4 A-4, A-6, A-7 	 			•	75-100 85-100 			
	50-65	Silt loam,	CL, CL-ML, ML, SM 	A-4, A-6 	 	0-5 	 90-100 	 85-100 	 65-95 	40-90 	15-40 	 NP-20

Table H.--Engineering Index Properties--Continued

		 USDA texture 	I	Cla	ssif	icati	on		Fragi	ments		_	-		1	<u> </u>
Map symbol and soil name	Depth		!						Fragments Percentage passi sieve number		Liquid limit					
and soil name			 †	Unifie	d	l I A	ASHTO					10	40	200	- '	index
	———		 			 			 Pct	 Pct	! !	 	 		Pct	
 Lindside				ML, C												
; !		loam, silt loam, very fine sandy loam	 	02 112	, 01		11 0		 	 	 	 				
			SM	-	С,	A-2, 	A-4,	A-6	 	0 	60-100 	55-100 	45-100 	30-95	20-60 	4-18
Other Soils		 	 			 			 	 	 	 	 			
UwB:			İ							İ	<u>'</u>					<u>'</u>
Urban Land	0-6	 				 										
Wheeling	0-9		 SM, CL	SC, M	L,	 A-4 			 	 0 	 90-100 	 90-100 	 85-100 	45-90	15-35	 NP-10
ļ		Silty clay loam, loam, gravelly sandy loam	SM	ML, S	С,	A-4,	A-6		 	0-5 	90-100 	70-100 	65-100 	45-80	20-40 	2-20
 		Stratified very fine sand to very gravelly sand	GM			A-1, 3, 1		A-	- 	10-20 	35-90 	20-75 	10-65 	4-45	15-20 	NP-10
Other Soils		 	 			 			 	 	 	 	 	 	 	
VaD:	0 7			Q.T.			- c									
Vandalia			ML,	CL, C		A-4, A-6,		A-1/								
į		loam, channery silty clay,		02, 0						 						
	41-65	clay Silty clay, clay, channery silty clay loam		мн, с	L,	 A-6, 	A-7		 	 0-5 	 70-100 	 65-100 	 60-100 	55-100	 30-65 	 10-30
VuD: Urban Land	0-6	 	 			 			 	 	 	 	 	 	 	

Table H.--Engineering Index Properties--Continued

Map symbol	 Denth	 USDA texture	Classif	ication	Frag	ments			e passinumber		 Liquid	 Plas=
and soil name	l pebcu	ODDA CEACUIE			>10	I 3-10		sieve II		ticity		
ana boll name		į	Unified	AASHTO		inches	4	10	40	200		lindex
	 In	<u> </u>	I	·	 Pct	 Pct		 		 	Pct	
Vandalia	7-41		CL, ML, CH	 A-4, A-6, A-7 A-6, A-7					 70-95 65-90 			
	41-65	clay Silty clay, clay, channery silty clay loam	 ML, MH, CL, CH 	 A-6, A-7 	 	 0-5 	 70-100 	 65-100 	 60-100 	 55-100 	 30-65 	 10-30
Other Soils	 		 		 	 	 	 	 	 		
W: Water	 	 	 		 	 	 	 	 	 	 	
WhB:								 				
Wheeling	l 0-9		SM, SC, ML,	A-4		0	190-100	190-100	85-100	45-90 	115-35	INP-10
		· ·	SM, SC, ML,	A-4, A-6	 	0-5	90-100 	70-100 	65-100 	 45-80 	20-40	2-20
	43-65	Stratified very		A-1, A-2, A- 3, A-4 	 	10-20 	35-90 	20-75 	10-65 	4-45 	15-20 	NP-10